



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

April 18, 2013

TO: Matt Fry, Forest Management Division
Jay Wesley, Fisheries Division
Ray Fahlsing, Parks and Recreation Division
Don Avers, Wildlife Division

FROM: Stacy Tchorzynski, Michigan Historical Center

SUBJECT: Request for Archaeological Exploration Permit (AE2013-02)

Attached for your review is a permit application for archaeological exploration on state-owned lands and the supporting documentation. Proposed exploration includes the excavation of 15 square meters within the previously documented archaeological site 20ME61, located along the Escanaba River in Menomine County. This site consists of prehistoric Native American raised agricultural fields and is considered eligible for the National Register of Historic Places by the State Historic Preservation Office. The main goal of this project is to collect soil matrix samples for laboratory testing in order to better understand prehistoric agricultural practices at this location.

No Project Use is listed on the attached Parcel Detail Report; however, the IFMAP program shows this location under the Escanaba Forest Management Unit (FMU 33), Compartment 23 (see attached FMU map). Additionally, a portion of the applicant's desired project area falls outside of state lands; the applicant will be made aware that this permit does not cover lands not under state ownership.

Please review this application for restrictions that you believe are needed and respond by May 10; your recommendations will be added to the permit. If you are the lead agency, please indicate the authorized Department representative who should be contacted for inquiries and/or concerns under the permit. The name, address, telephone number, fax number, and email address are needed for the individual.

The State Archaeologist and the federally recognized tribes have been sent a copy of these materials for review. After field reviews are complete, the application will be sent to the State Archaeologist for final review and approval. Once all required signatures are obtained, a fully executed copy will be sent to the lead agency representative.

Thank you for your attention to this permit application. Should you have any questions or concerns, please contact me at 517-373-6358 or tchorzynskis@michigan.gov.

Attachments



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

June 25, 2014

TO: Matt Fry, Forest Management Division
Jay Wesley, Fisheries Division
Ray Fahlsing, Parks and Recreation Division
Don Avers, Wildlife Division

FROM: Stacy Tchorzynski, Michigan Historical Center

SUBJECT: Request for Archaeological Exploration Permit (AE2014-07 Overstreet)

Attached for your review is a permit application for archaeological exploration on state-owned land (AE2014-07 Overstreet). Proposed exploration includes excavation and sampling within archaeological sites located along the Menominee River in Menominee County to understand early farming practices. This research area contains Native American raised agricultural fields considered eligible for listing in the National Register of Historic Places by the SHPO. This is the same project area being studied by Wendy and Michael Scullins under permit AE2014-04.

No Project Use is listed on the Parcel Detail Report; however, IFMAP shows this location under Escanaba Forest Management Unit 33 (map attached). Additionally, a portion of the applicant's desired project area falls outside of state land; this permit does not cover land not under state ownership.

This is a continuation of 2013 permitted work (AE2013-02). The prior permit included one condition.

OAK WILT RESTRICTION: Unless otherwise approved in writing by the Grantor's representative, the clearing, cutting or pruning of oak trees is not permitted from April 15 to July 15. This is necessary to reduce the spread of oak wilt.

Please review this application for any additional restrictions that you believe are needed and **respond by July 24**; your recommendations will be added to the permit. **If you are the lead division, please indicate the authorized representative** who should be contacted for inquiries and/or concerns under the permit. The name, address, telephone number, fax number, and email address are needed for the individual.

The State Archaeologist and the federally recognized tribes have been sent a copy of these materials for review. After field reviews are complete, the application will be sent to the State Archaeologist for final review and approval. Once all required signatures are obtained, a fully executed copy will be sent to the lead agency representative.

Thank you for your attention to this permit application. Should you have any questions or concerns, please contact me at 517-373-6358 or tchorzynski@michigan.gov.

From: Dean Anderson
To: Eric Thompson
Date: 06/22/2009 11:14:40 AM
Subject: Re: Review of Exploration Plan 2009-1, Aquila Resources Inc.

Eric and Milt,

COPY ATTACHED

Our comments in the letter from Brian Conway (SHPO) of May 14th, 2008 concerning Exploration Plan 2008-3 continue to apply to Exploration Plan 2009-1. I would add, however, that since the date of that letter, we have received no communication or information regarding any archaeological investigation of project activities prior to ground disturbing work taking place. We want to reiterate that there are known archaeological sites in the vicinity of the proposed drilling locations - the proposed locations in Sections 1 and 12 are especially close to known sites and archaeologically sensitive areas. In addition, archaeological sensitivity in other parts of the project area is as yet unclear because there has been no archaeological survey for most of the area. We remain very concerned about the protection of both known, and as yet undiscovered, archaeological sites in the project area.

Dean

Dean L. Anderson, Historical Archaeologist
Michigan Historical Center
Box 30740
702 West Kalamazoo Street
Lansing, MI 48909-8240
E-mail: AndersonD15@michigan.gov
Phone: (517) 373-1618
Fax: (517) 241-4738

PLEASE NOTE that my email address has changed.
My new address is: AndersonD15@michigan.gov.

Take time this summer to relax and discover your connections to Michigan's past in the pages of Michigan History magazine. www.michiganhistorymagazine.com

>>> Eric Thompson 6/17/2009 8:41:11 AM >>>

This is a reminder that this review is due in Lansing on Monday June 22nd. If you have already provided me with your comments and recommendations then disregard this message.

>>> Sally Rankin (for Milt Gere) (Sally Rankin) 05/20/2009 2:15 PM >>>

Attached is the request for review of the above referenced exploration plan. If you have any questions, please contact Milt Gere. Thank you.

Sally Rankin
Management Assistant
Mineral and Land Management Section
Forest, Mineral and Fire Management

(see options 2 or 3 below).

OR

2.A statement from a knowledgeable source stating that suitable habitat is or is not present and why the project will not impact the species or habitat(s) identified above.

OR

3.Results from a complete and adequate survey by a knowledgeable source showing whether or not the above listed species are present in the affected project area. Guidelines for conducting surveys and a list of consultants who may be able to help conduct surveys can be accessed at: <http://www.michigan.gov/dnrenreview>. For additional information, including consultation with biologists, please contact me at the e-mail or phone number below.

In most situations, the most efficient, thorough, and expeditious evaluation of the project and its impacts results from option 3. Please provide information in writing to the mailing address or e-mail provided below.

Michigan Department of Natural Resources
Wildlife Division - Natural Heritage Program
PO Box 30180
Lansing, MI 48909

Lori

>>> Milt Gere 06/23/2009 4:36 PM >>>

Lori ... More comments ... The review includes the beetle again. I thought you dismissed that comment a year or two ago when these same parcels were reviewed then?

Also, how shall they comply with the statement: "Clearance from this office in the form of a "No Effect" statement will be needed before work on this project begins."? Who and when should they call?

Please advise so we can incorporate this information in the Exploration Plan conditions and approval statement.

Thanks. Milt

★ >>> Lori Sargent 06/23/2009 4:19 PM >>>

This comment from Mike Sanders of MNFI was sent to you 6/12/09:

"Milt,

The following response is on behalf of the DNR Wildlife Division - Lansing office.

Several records for the state endangered dwarf milkweed (*Asclepias ovalifolia*) are found in Section 12 of the proposed project location. This species is very rare in Michigan, occurring in Menominee County only. Populations may occur locally in savannas and thin woodlands (oak, jack pine and/or aspen), becoming more common after fire. The slender stature and cream colored flowers of this species allow it be easily distinguished from other milkweeds. Flowering occurs from early June through mid-July.

The project site may include suitable habitat for the dwarf milkweed. Potential impacts might include

From: Dean Anderson
To: Eric Thompson
Date: 06/22/2009 11:14:40 AM
Subject: Re: Review of Exploration Plan 2009-1, Aquila Resources Inc.

Eric and Milt,

* COPY ATTACHED

Our comments in the letter from Brian Conway (SHPO) of May 14th, 2008 concerning Exploration Plan 2008-3 continue to apply to Exploration Plan 2009-1. I would add, however, that since the date of that letter, we have received no communication or information regarding any archaeological investigation of project activities prior to ground disturbing work taking place. We want to reiterate that there are known archaeological sites in the vicinity of the proposed drilling locations - the proposed locations in Sections 1 and 12 are especially close to known sites and archaeologically sensitive areas. In addition, archaeological sensitivity in other parts of the project area is as yet unclear because there has been no archaeological survey for most of the area. We remain very concerned about the protection of both known, and as yet undiscovered, archaeological sites in the project area.

Dean

Dean L. Anderson, Historical Archaeologist
Michigan Historical Center
Box 30740
702 West Kalamazoo Street
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E-mail: AndersonD15@michigan.gov
Phone: (517) 373-1618
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PLEASE NOTE that my email address has changed.
My new address is: AndersonD15@michigan.gov.

Take time this summer to relax and discover your connections to Michigan's past in the pages of Michigan History magazine. www.michiganhistorymagazine.com

>>> Eric Thompson 6/17/2009 8:41:11 AM >>>

This is a reminder that this review is due in Lansing on Monday June 22nd. If you have already provided me with your comments and recommendations then disregard this message.

>>> Sally Rankin (for Milt Gere) (Sally Rankin) 05/20/2009 2:15 PM >>>

Attached is the request for review of the above referenced exploration plan. If you have any questions, please contact Milt Gere. Thank you.

Sally Rankin
Management Assistant
Mineral and Land Management Section
Forest, Mineral and Fire Management

For Expl Plan
2009-1



2008 Archaeology
Letter

JENNIFER GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF HISTORY, ARTS AND LIBRARIES
LANSING

DR. WILLIAM ANDERSON
DIRECTOR

May 14, 2008

MR ERIC THOMPSON
DEPARTMENT OF NATURAL RESOURCES
6833 HIGHWAYS 2, 41, AND M-35
GLADSTONE MI 49837

RE: ER-06-175 Exploration Plan 2008-3, Aquila Back Forty Project, Menominee County

Dear Mr. Thompson:

This letter is a follow-up to a meeting held on May 2nd, 2008, between the Office of the State Archaeologist (OSA), Environmental Resources Management (ERM), and Commonwealth Cultural Resources Group (CCRG), at which plans and procedures were discussed for archaeological fieldwork to take place in conjunction with exploratory drilling described in Metallic and Nonmetallic Mineral Lease Exploration Plan 2008-3. The information provided here is pertinent to the review, modification and approval of the Exploration Plan. The plan indicates that up to 75 exploration test holes may be drilled in Section 12, and up to 25 holes may be drilled in Section 1, T35N-R29W. Testing will be conducted with a skid-mounted drill rig. Existing roads and trails will be used to reach the proposed drilling locations to the extent practicable. Some new access routes may be created. Each drill site will be 50 feet by 50 feet or less.

This project is not a federal undertaking, and thus does not fall under the authority of Section 106 of the National Historic Preservation Act (NHPA) of 1966 (as amended). Nor does exploratory mineral drilling in Michigan specifically require cultural resource evaluation under the Supervisor of Mineral Wells rules (due to generally minimal impact). However, given the advanced nature of the project and the identification of archeological resources in the area, exploratory testing in this case has the potential to affect archaeological sites if any are present within the project area. Consequently, it is important to systematically examine the drilling locations that are determined by the supervising archeologist to have increased sensitivity for archeological sites before any clearing, drill site preparation, etc. takes place in order to determine whether archaeological deposits are present. The archaeological investigations will be carried out under the supervision of a professional archaeologist who meets the qualifications under 36 CFR 61.

Archaeological investigation for the project will follow the format of a Phase I survey in areas on state land judged by the Principal Investigator to have increased sensitivity for archaeological sites: Pre-field research, including examination of maps, documents and photographs, will help guide subsequent fieldwork. The purpose of a Phase I survey is to locate and identify archaeological sites within a given area, in this case, within the drilling locations. We understand that once the test drilling begins, the results achieved may influence decisions about the placement of subsequent test holes. Locations will be identified in the field in advance of the drilling work. With the drilling locations marked, the archaeological crew could survey the first set of locations to be drilled before the drilling crew began work on that set of borings. Subsequent drilling locations will be cleared by the archaeological crew prior to drilling. In addition, the archaeological crew should be accessible in the event that the drilling crew wished to move to a new location not previously identified and cleared, and needed the archaeological crew to examine the area.

Phase I survey commonly involves both pedestrian surface survey and subsurface shovel testing, depending upon ground surface conditions. Under conditions of favorable ground surface exposure, such as in a plowed field, surface examination is an effective means of finding sites. However, if the ground surface is obscured by vegetation, which is often the case in forested settings, it is necessary to look for archaeological evidence beneath the ground surface, which is usually accomplished through shovel testing.

At 50 feet by 50 feet, or approximately 250 square feet, the drilling locations are relatively small survey areas. Using metric system measurements, the drilling locations are roughly 15 meters by 15 meters. For purposes of

STATE HISTORIC PRESERVATION OFFICE, MICHIGAN HISTORICAL CENTER
702 WEST KALAMAZOO STREET • P.O. BOX 30740 • LANSING, MICHIGAN 48909-8240
(517) 373-1630
www.michigan.gov/hal

EPA-R5-2018-009055_0000328_0006

For Expt Plan
2009-1

2008 Review

Comments on T&E

From: Lori Sargent
To: Milt Gere
Date: 04/29/2008 10:43:40 AM
Subject: T&E Species Review

Protected or rare species and/or rare natural communities are known to occur near the sites of the following proposed project and may be impacted by the project(s) as described. Please try to incorporate these recommendations into any permits that are issued.

2008-3, Aquila Resources, Inc.

Dwarf milkweed - state endangered
Vasey's rush - state threatened
Oak-pine barrens

The dwarf milkweed (*Asclepias ovalifolia*) is known to occur in section 12, T35N R29W. This species is very rare in Michigan, occurring in Menominee County only. Populations may occur locally in savannas and thin woodlands (oak, jack pine and/or aspen), becoming more common after fire. The slender stature and cream colored flowers of this species allow it be easily distinguished from other milkweeds. Flowering occurs from early June through mid-July.

★ Vasey's rush (*Juncus vaseyi*) has been known to occur in section 12, T35N R29W. Vasey's rush inhabits moist, sandy barrens and open marshy flats or swales—sometimes resulting from shallow excavations. Throughout its range, this rush typically inhabits seasonally moist, open areas on rocks and sand, in acidic soil. Fertile plants have been collected from late July to mid-September. The marshy habitat of this rush is kept open by seasonal flooding. Hence, maintenance of the natural hydrologic regime is important.

An oak-pine barrens natural community has been known to occur in in section 12, T35N R29W. Oak-pine barrens are heterogeneous (mixed), fire-dependent savanna type communities dominated by oaks and pines, having between 5 and 60 percent canopy. Structurally oak-pine barrens range from dense thickets of brush and understory scrub oak and pine with a matrix of grasslands, to park-like open woods of widely spaced mature oak and pines with little to no shrub or sub-canopy layer. The structural variations depend upon the frequency and intensity of fire. Repeated low intensity fires (from lightning or other means) along with periodic drought maintain these barrens. The flora of this community is a mixture of prairie and forest species.

NOTE: An e-mail will get a quicker response from me than voicemail in most cases

Lori Sargent
Nongame Wildlife Biologist
Wildlife Division
Michigan Dept. of Natural Resources
PO Box 30180
Lansing, MI 48909
SargenL2@michigan.gov
517-373-9418



PRS - Exploration Plan Review Summary

Par ID	County Name	Twn	Rnge	Sec	QQ	Q	Acres	Type	Fund	Nom Date	Nom Type	Lease Type
97931	Menominee							ACR	Tax Reverted	02/29/2016	MM Direct	MM
Legal: NE1/4 SW1/4												
Agency: HAL Current Review: 03/21/2016 Staff: YANNJ Classified: Agree With Restrictions Reas: None Stips: None												
Comments: There is one archaeological site (20ME119) recorded within this parcel that must be marked by a professional archeologist and avoided.												
Agency: WILD Current Review: 04/06/2016 Staff: ARSNOED Classified: Agree With Plan Reas: None Stips: None												
Comments: WLD approves continuation of mineral exploration activities.												
Agency: FMD Current Review: 03/15/2016 Staff: THOMPSON Classified: Agree With Plan Reas: None Stips: None												
Comments:												
Agency: PRD Current Review: 03/03/2016 Staff: LINCOLNM Classified: Agree With Restrictions Reas: None Stips: None												
Comments: Defer to FRD.												
Agency: FISH Current Review: 03/22/2016 Staff: KRAMERD Classified: Agree With Plan Reas: None Stips: None												
Comments: Any other aquatic resources, including spring seeps, vernal waters, or wetlands should be buffered to the greatest extent possible throughout the duration of the project. All impacts to these aquatic resources that cannot be avoided shall be completed und the authorization and guidelines set forth in an issued DEQ Part 303 (Wetlands) permit.												
Agency: LEAD Current Review: 04/06/2016 Staff: MANKEED Classified: Agree With Restrictions Reas: None Stips: None												
Comments: Best Management Practices must be followed. No surface disturbance within 1320 feet of waterways without Field Coordinator approval. A known cultural concern in this area												
97940	Menominee							ACR	Tax Reverted	02/29/2016	MM Direct	MM
Legal: NW1/4 NE1/4												
Agency: HAL Current Review: 03/21/2016 Staff: YANNJ Classified: Agree With Restrictions Reas: None Stips: None												
Comments: There is a known archaeological site located partially within this parcel (20ME126) that must be marked by a professional archeologist and avoided.												
Agency: WILD Current Review: 04/07/2016 Staff: ARSNOED Classified: Agree With Plan Reas: None Stips: None												
Comments: WLD approves continuation of mineral exploration activities.												
Agency: FMD Current Review: 04/11/2016 Staff: THOMPSON Classified: Agree With Plan Reas: None Stips: None												
Comments:												
Agency: PRD Current Review: 04/12/2016 Staff: LINCOLNM Classified: Agree With Plan Reas: None Stips: None												
Comments:												
Agency: FISH Current Review: 03/22/2016 Staff: KRAMERD Classified: Agree With Plan Reas: None Stips: None												
Comments: Any other aquatic resources, including spring seeps, vernal waters, or wetlands should be buffered to the greatest extent possible throughout the duration of the project. All impacts to these aquatic resources that cannot be avoided shall be completed und the authorization and guidelines set forth in an issued DEQ Part 303 (Wetlands) permit.												
97941	Menominee							ACR	Tax Reverted	02/29/2016	MM Direct	MM
Legal: SW1/4 NE1/4												
Agency: HAL Current Review: 03/21/2016 Staff: YANNJ Classified: Agree With Restrictions Reas: None Stips: None												
Comments: There is a known archaeological site located partially within this parcel (20ME126) that must be marked by a professional archeologist and avoided.												
Agency: WILD Current Review: 04/07/2016 Staff: ARSNOED Classified: Agree With Plan Reas: None Stips: None												
Comments: WLD approves continuation of mineral exploration activities.												
Agency: FMD Current Review: 04/11/2016 Staff: THOMPSON Classified: Agree With Plan Reas: None Stips: None												
Comments:												
Agency: PRD Current Review: 04/12/2016 Staff: LINCOLNM Classified: Agree With Plan Reas: None Stips: None												
Comments:												
Agency: FISH Current Review: 03/22/2016 Staff: KRAMERD Classified: Agree With Plan Reas: None Stips: None												
Comments:												



PRS - Exploration Plan Review Summary

Par. ID	County Name	Twn	Rnge	Sec	QQ	Q	Acres	Type	Fund	Nom. Date	Nom. Type	Lease Type
97931	Menominee							ACR	Tax Reverted	02/29/2016	MM Direct	MM
Legal: NE1/4 SW1/4												
Agency: HAL Current Review: 03/21/2016 Staff: YANNJ Classified: Agree With Restrictions Reas: None Stips: None												
Comments: There is one archaeological site (20ME119) recorded within this parcel that must be marked by a professional archeologist and avoided.												
Agency: WILD Current Review: 04/06/2016 Staff: ARSNOED Classified: Agree With Plan Reas: None Stips: None												
Comments: WLD approves continuation of mineral exploration activities.												
Agency: FMD Current Review: 03/15/2016 Staff: THOMPSON Classified: Agree With Plan Reas: None Stips: None												
Comments:												
Agency: PRD Current Review: 03/03/2016 Staff: LINCOLNM Classified: Agree With Restrictions Reas: None Stips: None												
Comments: Defer to FRD.												
Agency: FISH Current Review: 03/22/2016 Staff: KRAMERD Classified: Agree With Plan Reas: None Stips: None												
Comments: Any other aquatic resources, including spring seeps, vernal waters, or wetlands should be buffered to the greatest extent possible throughout the duration of the project. All impacts to these aquatic resources that cannot be avoided shall be completed und the authorization and guidelines set forth in an issued DEQ Part 303 (Wetlands) permit.												
Agency: LEAD Current Review: 04/06/2016 Staff: MANKEED Classified: Agree With Restrictions Reas: None Stips: None												
Comments: Best Management Practices must be followed. No suface disturbance within 1320 feet of waterways without Field Coordinator approval. A known cultural concern in this area												
97936	Menominee	35N	28W	06	NW	SE	40	ACR	Tax Reverted	02/29/2016	MM Direct	MM
Legal: NW1/4 SE1/4												
Agency: HAL Current Review: 03/21/2016 Staff: YANNJ Classified: Agree With Plan Reas: None Stips: None												
Comments: There are no known archaeological sites in this parcel.												
Agency: FISH Current Review: 03/22/2016 Staff: KRAMERD Classified: Agree With Plan Reas: None Stips: None												
Comments: Any other aquatic resources, including spring seeps, vernal waters, or wetlands should be buffered to the greatest extent possible throughout the duration of the project. All impacts to these aquatic resources that cannot be avoided shall be completed und the authorization and guidelines set forth in an issued DEQ Part 303 (Wetlands) permit.												
97937	Menominee	35N	28W	06	SW	SE	40	ACR	Tax Reverted	02/29/2016	MM Direct	MM
Legal: SW1/4 SE1/4												
Agency: HAL Current Review: 03/21/2016 Staff: YANNJ Classified: Agree With Plan Reas: None Stips: None												
Comments: There are no known archaeological sites within this parcel.												
Agency: FISH Current Review: 03/22/2016 Staff: KRAMERD Classified: Agree With Plan Reas: None Stips: None												
Comments: Any other aquatic resources, including spring seeps, vernal waters, or wetlands should be buffered to the greatest extent possible throughout the duration of the project. All impacts to these aquatic resources that cannot be avoided shall be completed und the authorization and guidelines set forth in an issued DEQ Part 303 (Wetlands) permit.												
97939	Menominee	35N	28W	07	NE	NE	40	ACR	Tax Reverted	02/29/2016	MM Direct	MM
Legal: NE1/4 NE1/4												
Agency: HAL Current Review: 03/21/2016 Staff: YANNJ Classified: Agree With Plan Reas: None Stips: None												
Comments: There are no known archaeological sites in this parcel.												
Agency: FISH Current Review: 03/22/2016 Staff: KRAMERD Classified: Agree With Plan Reas: None Stips: None												
Comments: Any other aquatic resources, including spring seeps, vernal waters, or wetlands should be buffered to the greatest extent possible throughout the duration of the project. All impacts to these aquatic resources that cannot be avoided shall be completed und the authorization and guidelines set forth in an issued DEQ Part 303 (Wetlands) permit.												
97940	Menominee							ACR	Tax Reverted	02/29/2016	MM Direct	MM
Legal: NW1/4 NE1/4												
Agency: HAL Current Review: 03/21/2016 Staff: YANNJ Classified: Agree With Restrictions Reas: None Stips: None												
Comments: There is a known archaeological site located partially within this parcel (20ME126) that must be marked by a professional archeologist and avoided.												
Agency: FISH Current Review: 03/22/2016 Staff: KRAMERD Classified: Agree With Plan Reas: None Stips: None												
Comments: Any other aquatic resources, including spring seeps, vernal waters, or wetlands should be buffered to the greatest extent possible throughout the duration of the project. All impacts to these aquatic resources that cannot be avoided shall be completed und the authorization and guidelines set forth in an issued DEQ Part 303 (Wetlands) permit.												

Par ID	County Name	Twn	Rnge	Sec	QQ	Q	Acres	Type	Fund	Nom Date	Nom Type	LeaseType
97927	MENOMINEE	35N	28W	05	NW	SE	40	ACR		09/28/2011	MM Direct	Metallic Minerals
		35N	28W	05	NW	SE						

Legal: NW1/4 SE1/4

Last Review: 07/26/2001 Staff: EKDAHLJ Classified: Development-Restrictions Reasons: None Restrictions: 16

Comments:

Agency: HAL Current Review: 10/17/2011 Staff: YANNJ Classified: Agree With Plan Reas: None Stips None

Comments: No sites recorded in this section.

Agency: WILD Current Review: 11/03/2011 Staff: ALBRIGHTC Classified: Agree With Plan Reas: None Stips None

Comments:

Agency: FMD Current Review: 11/17/2011 Staff: THOMPSON Classified: Agree With Plan Reas: None Stips None

Comments:

Agency: FISH Current Review: 11/23/2011 Staff: LEGLERN Classified: Agree With Plan Reas: None Stips None

Comments: I reviewed maps of T35N-R28W-Section 5 and didn't see any open water, so there are no specific fisheries concerns/restrictions. Regardless, BMP's should be followed.

Agency: WRD Current Review: 11/04/2011 Staff: CARONJ Classified: Agree With Restrictions Reas: None Stips None

Comments: If wetlands or streams are proposed to be impacted, a permit from DEQ-WRD will be required.

Agency: OGS Current Review: 11/07/2011 Staff: HUMPHREY Classified: Agree With Plan Reas: None Stips None

Comments: The exploration plan is consistent with the requirements in Part 625. The company is to notify me, Melanie Humphrey, Office of Oil, Gas, and Minerals prior to drilling and plugging activities.

Agency: LEAD Current Review: 12/07/2011 Staff: ONEILLW Classified: Agree With Restrictions Reas: None Stips None

Comments: Best Management Practices must be followed.

97931	MENOMINEE							ACR		09/28/2011	MM Direct	Metallic Minerals
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Legal: NE1/4 SW1/4

Last Review: 08/07/2000 Staff: EKDAHLJ Classified: Development-Restrictions Reasons: None Restrictions: 16

Comments: Updated to LDR - T & E species tbn 8/3/05

Agency: HAL Current Review: 10/17/2011 Staff: YANNJ Classified: Agree With Restrictions Reas: None Stips None

Comments: This parcel has been surveyed for archaeological resources and sites have been found. In consultation with the archaeological consultant that performed the survey, these sites should be marked and avoided.

Agency: WILD Current Review: 11/03/2011 Staff: ALBRIGHTC Classified: Agree With Plan Reas: None Stips None

Comments:

Agency: FMD Current Review: 11/17/2011 Staff: THOMPSON Classified: Agree With Plan Reas: None Stips None

Comments:

Agency: FISH Current Review: 11/23/2011 Staff: LEGLERN Classified: Agree With Restrictions Reas: None Stips None

Comments: The Menominee River runs along the northwest portion of T35N-R28W-Section 6. BMPs should always be followed. Riparian areas should be protected with a buffer that limits location structures and surface disturbances to no closer than 1/4 mile (1,320 feet) from any surface water (Fisheries Policy 02.01.005, dated 02/25/2009).

Agency: WRD Current Review: 11/04/2011 Staff: CARONJ Classified: Agree With Restrictions Reas: None Stips None

Comments: If wetlands or streams are proposed to be impacted, a permit from DEQ-WRD will be required.

Agency: OGS Current Review: 11/07/2011 Staff: HUMPHREY Classified: Agree With Plan Reas: None Stips None

Comments: The exploration plan is consistent with the requirements in Part 625. The company is to notify me, Melanie Humphrey, Office of Oil, Gas, and Minerals prior to drilling and plugging activities.

Agency: LEAD Current Review: 12/07/2011 Staff: ONEILLW Classified: Agree With Restrictions Reas: None Stips None

Comments: Best Management Practices must be followed. No surface disturbance within 1320 feet of waterways without Field Coordinator approval. A known cultural concern in this area must be marked by a professional archeologist and avoided.

Par ID	County Name	Twn	Rnge	Sec	QQ	Q	Acres	Type	Fund	Nom Date	Nom Type	LeaseType
98142	MENOMINEE							ACR		09/28/2011	MM Direct	Metallic Minerals

Legal: SE1/4 SE1/4

Last Review: 08/07/2000 Staff: EKDAHLJ Classified: Development-Restrictions Reasons: None Restrictions: 16

Comments: Updated to LDR - T & E species tbh 8/3/05

Agency: HAL Current Review: 10/17/2011 Staff: YANNJ Classified: Agree With Restrictions Reas: None Stips None

Comments: This parcel has been surveyed for archaeological resources, and sites have been found. In consultation with the archaeological consultant that performed the survey, these sites should be marked and avoided.

Agency: WILD Current Review: 11/03/2011 Staff: ALBRIGHTC Classified: Agree With Plan Reas: None Stips None

Comments:

Agency: FMD Current Review: 11/17/2011 Staff: THOMPSON Classified: Agree With Plan Reas: None Stips None

Comments:

Agency: FISH Current Review: 11/23/2011 Staff: LEGLERN Classified: Agree With Restrictions Reas: None Stips None

Comments: The Menominee River runs along the western edge of T35N-R29W-Section 1. BMPs should be followed. Riparian areas should be protected with a buffer that limits location structures and surface disturbances to no closer that ¼ mile (1,320 feet) from any surface water (Fisheries Policy 02.01.005, dated 02/25/2009).

Agency: WRD Current Review: 11/04/2011 Staff: CARONJ Classified: Agree With Restrictions Reas: None Stips None

Comments: If wetlands or streams are proposed to be impacted, a permit from DEQ-WRD will be required.

Agency: OGS Current Review: 11/07/2011 Staff: HUMPHREY Classified: Agree With Plan Reas: None Stips None

Comments: The exploration plan is consistent with the requirements in Part 625. The company is to notify me, Melanie Humphrey, Office of Oil, Gas, and Minerals prior to drilling and plugging activities.

Agency: LEAD Current Review: 12/07/2011 Staff: ONEILLW Classified: Agree With Restrictions Reas: None Stips None

Comments: Best Management Practices must be followed. No surface disturbance within 1320 feet of waterways without Field Coordinator approval. A known cultural concern in this area must be marked by a professional archeologist and avoided.

98148	MENOMINEE							ACR		09/28/2011	MM Direct	Metallic Minerals
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Legal: NE1/4 NE1/4

Last Review: 08/07/2000 Staff: EKDAHLJ Classified: Development-Restrictions Reasons: None Restrictions: 16

Comments: Updated to LDR - T & E species tbh 8/3/05

Agency: HAL Current Review: 10/17/2011 Staff: YANNJ Classified: Agree With Restrictions Reas: None Stips None

Comments: This parcel has been surveyed for archaeological resources, and sites have been found. In consultation with the archaeological consultant that performed the survey, these sites should be marked and avoided.

Agency: WILD Current Review: 11/03/2011 Staff: ALBRIGHTC Classified: Agree With Plan Reas: None Stips None

Comments:

Agency: FMD Current Review: 11/17/2011 Staff: THOMPSON Classified: Agree With Plan Reas: None Stips None

Comments:

Agency: FISH Current Review: 11/23/2011 Staff: LEGLERN Classified: Agree With Restrictions Reas: None Stips None

Comments: The Menominee River runs along the northwestern edge of T35N-R29W-Section 12. Additionally, spring creek runs through the southeastern edge of Section 12. BMPs should be followed. Riparian areas should be protected with a buffer that limits location structures and surface disturbances to no closer that ¼ mile (1,320 feet) from any surface water (Fisheries Policy 02.01.005, dated 02/25/2009).

Agency: WRD Current Review: 11/04/2011 Staff: CARONJ Classified: Agree With Restrictions Reas: None Stips None

Comments: If wetlands or streams are proposed to be impacted, a permit from DEQ-WRD will be required.

Agency: OGS Current Review: 11/04/2011 Staff: HUMPHREY Classified: Agree With Plan Reas: None Stips None

Comments: The drilling activities proposed in the exploration plan meet the requirements of Part 625. The Office of Oil, Gas, and Minerals, UP District Office is to be notified prior to drilling and plugging activities.

Agency: LEAD Current Review: 12/07/2011 Staff: ONEILLW Classified: Agree With Restrictions Reas: None Stips None

Comments: Best Management Practices must be followed. No surface disturbance within 500 feet of Spring Creek. A known cultural concern in this area must be marked by a professional archeologist and avoided.

Rose, Peter (DNR)

From: Anderson, Dean (MSHDA)
Sent: Thursday, September 24, 2015 10:27 AM
To: Eric Quigley; Rose, Peter (DNR)
Cc: Andrew Boushy
Subject: RE: Exploration Plan

Peter and Eric,

I think I can help clear this up. As Peter mentioned, the language in our review was standard stipulation language, but beyond that, it was repeated from a previous review of an earlier exploration plan for the same area. That area has been surveyed for archaeological sites, and several sites were identified. However, about the same time we did the review of the earlier exploration plan, some additional archaeological investigation was done to evaluate the significance of those sites. Those investigations involved sites 20ME112, 20ME113, 20ME114, 20ME115 and 20ME125. Eric, are the sites in your GIS database identified with those site numbers, or are they identified a different way? If they are not identified using those site numbers, I can provide you with location information so you can correlate your GIS locations with our site numbers. Sites 20ME 112, 113, 114, and 115 are in the [REDACTED] and site 20ME125 is in the [REDACTED]. The additional archaeological investigation determined that sites 20ME112, 113, 114 and 115 do not appear to be cultural features, and instead, are natural features. It appears, however, that site 20ME125 may be a small group of burial mounds. Because of the sensitivity of a site like this, we put the stipulation in our review that the site needs to be identified and marked so it can be avoided. Eric, if you have the site location, and you can buffer the site by 25 feet or so, and place a prominent visible barrier around it – like snow fence - that should take care of it. If there is any question about the location of the site, then it would be important to have an archaeologist re-identify the site so it can be protected.

With regard to Peter's suggestion that perhaps archaeological survey data should be included in exploration plans, I don't think that is necessary. As far as I know, we have received copies of all of the archaeological reports completed for the project, so we have that information here in our office.

I hope this helps clear up the situation . . . let me know if there are other questions.

Dean

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(517) 373-1618

From: Eric Quigley [mailto:EQuigley@aquilaresources.com]
Sent: Wednesday, September 23, 2015 3:25 PM
To: Rose, Peter (DNR) <RoseP1@michigan.gov>